

INDEX BY TITLES AND SUBJECTS

Algebra baseball game. ——, XXIII, May 1930, 317-320.

Algebra.

Eleventh year mathematics outline. Reeve, W. D., and his students, XXIII, Nov. 1930, 413-437.

Experiment with the mathematics of the eleventh year. Orleans, Joseph B., XXIII, Dec. 1930, 477-488.

Home work papers in first year algebra. Jackson, Nelson A., XXIII, Jan. 1930, 23-24.

Prize problems for prize pupils. Clarke, Elbert H., XXIII, Jan. 1930, 30-34. Some difficulties involved in solving verbal problems in elementary algebra.

Clem, Orlie M., and Bertha Adams Hendershot, XXIII, Mar. 1930, 141-147.

Thither algebra. Stroup, P., XXIII, May 1930, 311-316.

Using ratio in problem solving. Allison, John R., XXIII, Mar. 1930, 187-188.

Whither algebra. Betz, William, XXIII, Feb. 1930, 104-125.

Arithmetic.

Consumer's uses of arithmetic. Shuster, C. N., XXIII, Mar. 1930, 180-184. Criticism of Dr. Bowden's "Consumers Uses of Arithmetic." Roth, William E., XXIII, Dec. 1930, 467-473.

Methods of arithmetic problem solving. Hanna, Paul R., XXIII, Nov. 1930, 442-450.

Skills involved in problem solving in elementary school arithmetic. West, Guy A., XXIII, Oct. 1930, 379-381.

Building tests in junior high school mathematics. Stokes, C. N., XXIII, Nov. 1930, 403-412.

Clubs.

Mathematics club of the Pontiac High School. Steward, Margaret, XXIII, Jan. 1930, 25-29.

Recreations for the mathematics club. Bentley, Byron, XXIII, Feb. 1930, 95-103.

College Entrance Requirements.

Geometry as preparation for college. Longley, W. R., XXIII, April 1930, 257-267.

Commercial mathematics in a small high school. Moore, Lillian, XXIII, Mar. 1930, 189-193.

Consumer's uses of arithmetic. Shuster, C. N., XXIII, Mar. 1930, 180-184.

Council. See National Council.

Creating interest in mathematics through special topics. Hansen, Lena B., XXIII, Jan. 1930, 1-6.

Criticism of Dr. Bowden's "Consumers Uses of Arithmetic." Roth, William E., XXIII, Dec. 1930, 467-473.

Eleventh year mathematics outline. Reeve, W. D., and his Students, XXIII, Nov. 1930, 413-437.

Experiment with the mathematics of the eleventh year. Orleans, Joseph B., XXIII, Dec. 477-488.

Experimental work and special classes in mathematics in the high schools of New York City. XXIII, Oct. 1930, 373-378.

Fallacy in geometric reasoning. Christofferson, H. C., XXIII, Jan. 1930, 19-22. Florian Cajori, XXIII, Dec. 1930, 517-518.

Games.

Algebra baseball game. ——, XXIII, May 1930, 317-320.

Geometric proofs for trigonometric formulas. Haas, Arthur, XXIII, May 1930, 321-326.

Geometry.

Fallacy in geometric reasoning. Christofferson, H. C., XXIII, Jan. 1930, 19-22.

Geometric proofs for trigonometric formulas. Haas, Arthur, XXIII, May 1930, 321-326.

Geometry as preparation for college. Longley, W. R., XXIII, April 1930, 257-267.

Geometry in the junior high school. Gugle, Marie, XXIII, April 1930, 209-226.

Geometry measures land. Ransom, W. R., XXIII, April 1930, 243-251.

Individual work in plane geometry. Zant, Jas H., XXIII, Mar. 1930, 155-160.

Introduction to demonstrative geometry. Taylor, E. H., XXIII, April 1930, 227-235.

One year course in plane and solid geometry. Stone, John C., XXIII, April 1930, 236-242.

Professional course for the training of geometry teachers. Christofferson, H. C., XXIII, May 1930, 289-299.

Proposed syllabus in plane and solid geometry. Evans, George W., XXIII, Feb. 1930, 87-94.

Rebuilding geometry. Evans, George W., XXIII, April 1930, 252-256.

Tenth year mathematics outline. Reeve, W. D., and his Students, XXIII, Oct. 1930, 343-357.

To postulate or not to postulate. Jackson, Nelson A., XXIII, Mar. 1930, 194-196.

Geometry as preparation for college. Longley, W. R., XXIII, April 1930, 257-267.

Geometry in the junior high school. Gugle, Marie, XXIII, April 1930, 209-226.

Geometry measures land. Ransom, W. R., XXIII, April 1930, 243-251.

Historical Notes.

Archimedes. XXIII, Jan. 1930, 61-62.

Cardan. XXIII, Nov. 1930, 458.

Euclid—the great geometer. XXIII, May 1930, 332.

Plato. XXIII, April 1930, 268.

Pythagoras. XXIII, March 1930, 185-186.

Tartaglia—the Stammerer. XXIII, Oct. 1930, 385.

Thales. XXIII, Feb. 1930, 84-86.

Vieta. XXIII, Dec. 1930, 508.

History of mathematics in the class room. Wiltshire, Bernice, XXIII, Dec. 1930, 504-508.

Home work or supervised study? Smith, Grace, XXIII, Dec. 1930, 489-491.

Home work papers in first year algebra. Jackson, Nelson A., XXIII, Jan. 1930, 23-24.

How much do pupils enjoy mathematics? Butler, Charles H., XXIII, May 1930, 307-310.

Individual work in plane geometry. Zant, Jas. H., XXIII, Mar. 1930, 155-160.

Introduction to demonstrative geometry. Taylor, E. H., XXIII, April 1930, 227-235.

Junior high school.

Building tests in junior high school mathematics. Stokes, C. N., XXIII, Nov. 1930, 403-412.

Living mathematics. Freeman, Neda B., XXIII, Dec. 1930, 492-495.

Mathematics and world history. Schaaf, William L., XXIII, Dec. 1930, 496-503.

Mathematics as a fine art. Shaw, James Byrnie, XXIII, Mar. 1930, 164-179.

Mathematics club of the Pontiac High School. Steward, Margaret, XXIII, Jan. 1930, 25-29.

Mathematics exhibit. Gregory, M. Cottell, XXIII, Oct. 1930, 382-384.

Mathematics manuals and keys. Hunter, Harold E., XXIII, Oct. 1930, 386-390.

Message from the new president of the National Council. Everett, John P., XXIII, May 1930, 329-331.

Methods of arithmetic problem solving. Hanna, Paul R., XXIII, Nov. 1930, 442-450.

National Council of Teachers of Mathematics.

Message from the new president of the National Council. Everett, John P., XXIII, May 1930, 329-331.

Official notice. XXIII, Dec. 1930, 520.

Program of the Annual Meeting of the National Council of Teachers of Mathematics. XXIII, Jan. 1930, 63-64.
Report of the retiring president. Barber, Harry C., XXIII, May 1930, 327-328.
Treasurer's Report. XXIII, Dec. 1930, 519.
New idea for review work. Blaisdell, Walter H., XXIII, Nov. 1930, 438-441.
News Notes.
 XXIII, Jan. 1930, 65; Feb. 126-127; Oct. 391-395.
One year course in plane and solid geometry. Stone, John C., XXIII, April 1930, 236-242.
Poster of the mathematics exhibit at the Horace Mann School for Girls. XXIII, Jan. 1930, 35.
Prize problems for prize pupils. Clarke, Elbert H., XXIII, Jan. 1930, 30-34.
Problems in the teaching of mathematics. Georges, J. S., XXIII, Oct. 1930, 358-372.
Professional course for the training of geometry teachers. Christofferson, H. C., XXIII, May 1930, 289-299.
Professional preparation and growth in secondary school mathematics. Blank, Laura, XXIII, Nov. 1930, 451-457.
Professors of education and their academic colleagues. Bagley, William C., XXIII, May 1930, 277-288.
Program of the Annual Meeting of the National Council of Teachers of Mathematics. XXIII, Jan. 1930, 63-64.
Proposed syllabus in plane and solid geometry. Evans, George W., XXIII, Feb. 1930, 87-94.
Rebuilding geometry. Evans, George W., XXIII, April 1930, 252-256.
Recreations for the mathematics club. Bentley, Byron, XXIII, Feb. 95-103.
Relating art and mathematics. Weir, Bertha, XXIII, Jan. 1930, 60.
Remedial work in high school mathematics. Whitcraft, L. H., XXIII, Jan. 1930, 36-51.
Report of the retiring president. Barber, Harry C., XXIII, May 1930, 327-328.
Skills involved in problem solving in elementary school arithmetic. West, Guy A., XXIII, Oct. 1930, 379-381.
Slide rule as a check in trigonometry. Breckenridge, Wm. E., XXIII, Jan. 1930, 52-59.
Socialized mathematics. Klopp, W. J., XXIII, Mar. 1930, 161-163.
Some difficulties involved in solving verbal problems in elementary algebra. Clem, Orlie M., and Bertha Adams Hendershot, XXIII, Mar. 1930, 141-147.
Some difficult problems. Zeller, Karl A., XXIII, Dec. 1930, 474-476.
Tenth year mathematics outline. Reeve, W. D., and his Students, XXIII, Oct. 1930, 343-357.
Tests.
 Building tests in junior high school mathematics. Stokes, C. N., XXIII, Nov. 1930, 403-412.
Thither algebra. Stroup, P., XXIII, May 1930, 311-316.
To postulate or not to postulate. Jackson, Nelson A., XXIII, Mar. 1930, 194-196.
Trigonometry.
 Eleventh year mathematics outline. Reeve, W. D., and his Students, XXIII, Nov. 1930, 413-437.
 Geometric proof for trigonometric formulas. Haas, Arthur, XXIII, May 1930, 320-326.
Universality of mathematics. Reeve, William David, XXIII, Feb. 1930, 71-83.
Using ratio in problem solving. Allison, John R., XXIII, Mar. 1930, 187-188.
Value and logic in elementary mathematics. Durrell, Fletcher, XXIII, Jan. 1930, 7-18.
Value of examination papers to the teacher. Orleans, Joseph B., XXIII, May 1930, 300-306.
Value of pupils' examination papers to the teacher. Orleans, Joseph B., XXIII, Mar. 1930, 148-154.
Whither algebra. Betz, William, XXIII, Feb. 1930, 104-125.

INDEX BY AUTHORS

Allison, John R.
Using ratio in problem solving. *XXIII*, Mar. 1930, 187-188.

Bagley, William C.
Professors of education and their academic colleagues. *XXIII*, May 1930, 277-288.

Barber, Harry C.
Report of the retiring president. *XXIII*, May 1930, 327-328.

Bentley, Byron.
Recreations for the mathematics club. *XXIII*, Feb. 1930, 95-103.

Betz, William.
Whither algebra. *XXIII*, Feb. 1930, 104-125.

Blaisdell, Walter H.
New idea for review work. *XXIII*, Nov. 1930, 438-441.

Blank, Laura.
Professional preparation and growth in secondary school mathematics. *XXIII*, Nov. 1930, 451-457.

Breckenridge, Wm. E.
Slide rule as a check in trigonometry. *XXIII*, Jan. 1930, 52-59.

Butler, Charles H.
How much do pupils enjoy mathematics? *XXIII*, May 1930, 307-310.

Christofferson, H. C.
Fallacy in geometric reasoning. *XXIII*, Jan. 1930, 19-22.
Professional courses for the training of geometry teachers. *XXIII*, May 1930, 289-299.

Clarke, Elbert H.
Prize problems for prize pupils. *XXIII*, Jan. 1930, 30-34.

Clem, Orlie M., and Bertha Adams Hendershot.
Some difficulties involved in solving verbal problems in elementary algebra. *XXIII*, Mar. 1930, 141-147.

Durrell, Fletcher.
Value and logic in elementary mathematics. *XXIII*, Jan. 1930, 7-18.

Evans, George W.
Proposed syllabus in plane and solid geometry. *XXIII*, Feb. 1930, 87-94.
Rebuilding geometry. *XXIII*, April 1930, 252-256.

Everett, John P.
Message from the new president of the National Council. *XXIII*, May 1930, 329-331.

Freeman, Neda B.
Living mathematics. *XXIII*, Dec. 1930, 492-495.

Georges, J. S.
Problems in the teaching of mathematics. *XXIII*, Oct. 1930, 358-372.

Gregory, M. Cottell.
Mathematics exhibit. *XXIII*, Oct. 1930, 382-384.

Gugle, Marie.
Geometry in the junior high school. *XXIII*, April 1930, 209-226.

Haas, Arthur.
Geometric proofs for trigonometric formulas. *XXIII*, May 1930, 321-326.

Hanna, Paul R.
Methods of arithmetic problem solving. *XXIII*, Nov. 1930, 442-450.

Hansen, Lena B.
Creating an interest in mathematics through special topics. *XXIII*, Jan. 1930, 1-6.

Hendershot, Bertha Adams. See Clem, Orlie M.

Hunter, Harold E.
Mathematics manuals and keys. *XXIII*, Oct. 1930, 386-390.

Jackson, Nelson A.
Home work papers in first year algebra. *XXIII*, Jan. 1930, 23-24.
To postulate or not to postulate. *XXIII*, Mar. 1930, 194-196.

Klopp, W. J.
Socialized mathematics. *XXIII*, Mar. 1930, 161-163.

Longley, W. R.
Geometry as preparation for college. *XXIII*, April 1930, 257-267.

Moore, Lillian.
Commercial mathematics in a small high school. *XXIII*, Mar. 1930, 189-193.

Orleans, Joseph B.
Experiment with the mathematics of the eleventh year. *XXIII*, Dec. 1930, 477-488.

Value of examination papers to the teacher. *XXIII*, May 1930, 300-306.
Value of pupils' examination papers to the teacher. *XXIII*, Mar. 1930, 148-154.

Ransom, W. R.
Geometry measures land. *XXIII*, April 1930, 243-251.

Reeve, William David.
Universality of mathematics. *XXIII*, Feb. 1930, 71-83.
— and his Students.
Eleventh year mathematics outline. *XXIII*, Nov. 1930, 413-437.
Tenth year mathematics outline. *XXIII*, Oct. 1930, 343-357.

Roth, William E.
Criticism of Dr. Bowden's "Consumers Uses of Arithmetic." *XXIII*, Dec. 1930, 467-473.

Schaaf, William L.
Mathematics and world history. *XXIII*, Dec. 1930, 496-503.

Shaw, James Byrnie.
Mathematics as a fine art. *XXIII*, Mar. 1930, 164-179.

Shuster, C. N.
Consumer's uses of arithmetic. *XXIII*, Mar. 1930, 180-184.

Smith, Grace.
Home work or supervised study? *XXIII*, Dec. 1930, 489-491.

Steward, Margaret.
Mathematics club of the Pontiac High School. *XXIII*, Jan. 1930, 25-29.

Stokes, C. N.
Building tests in junior high school mathematics. *XXIII*, Nov. 1930, 403-412.

Stone, John C.
One year course in plane and solid geometry. *XXIII*, April 1930, 236-242.

Stroup, P.
Thither algebra. *XXIII*, May 1930, 311-316.

Taylor, E. H.
Introduction to demonstrative geometry. *XXIII*, April 1930, 227-235.

Weir, Bertha.
Relating art and mathematics. *XXIII*, Jan. 1930, 60.

West, Guy A.
Skills involved in problem solving in elementary school arithmetic. *XXIII*, Oct. 1930, 379-381.

Whitcraft, L. H.
Remedial work in high school mathematics. *XXIII*, Jan. 1930, 36-51.

Wiltshire, Bernice.
History of mathematics in the classroom. *XXIII*, Dec. 1930, 504-508.

Zant, Jas. H.
Individual work in plane geometry. *XXIII*, Mar. 1930, 155-160.

Zeller, Karl A.
Some difficult problems. *XXIII*, Dec. 1930, 474-476.

BOOK REVIEWS

Barber, Harry C. See Buchanan, Scott, and Whitehead, Alfred North.

Buchanan, Scott. *Poetry and Mathematics*. Harry C. Barber. XXIII, Oct. 1930, 396.

Christofferson, H. C. See Strader, William W.

Clark, Walter Eugene. *The Aryabhatiya of Aryabhata*. David Eugene Smith. XXIII, Oct. 1930, 396-398.

Congdon, Allan Ray. *Training in High School Mathematics Essential for Success in Certain College Subjects*. Jas. A. Zant. XXIII, May 1930, 333-335.

Garabedian, Carl A., and Jean Winston. *Plane Trigonometry*. Jas. H. Zant. XXIII, Feb. 1930, 128-130.

Lennes, N. J. *College Algebra*. Joseph B. Orleans. XXIII, Feb. 1930, 130-131.
_____. *Plane Trigonometry*. Joseph B. Orleans. XXIII, Feb. 1930, 131.

McCormick, Clarence. *The Teaching of General Mathematics in the Secondary Schools of the United States*. Jas. H. Zant. XXIII, Mar. 1930, 197-198.

Merrill, A. S. See Lennes, N. J.

Metzler, William H. See Muir, Thomas.

Muir, Thomas. *Theory of Determinants*. Revised and enlarged by Dr. William H. Metzler. Eugene Randolph Smith. XXIII, May 1930, 335-336.

Orleans, Joseph B. See Lennes, N. J.

Rhoades, Lawrence D. See Strader, William W.

Smith, David Eugene. See Clarke, Walter Eugene.

Smith, Eugene Randolph. See Muir, Thomas.

Solomon, Charles, and Herman M. Wright. *Plane Geometry*. Jas. H. Zant. XXIII, Feb. 1930, 128.

Strader, William W., and Lawrence D. Rhoades. *Solid Geometry*. H. C. Christofferson. XXIII, April, 1930, 269-270.

Swenson, John A. *The Sextant, How to Use It*. Carl N. Shuster and Aaron Bakst. XXIII, Dec. 1930.

Whitehead, Alfred North. *The Aims of Education*. Harry C. Barber. XXIII, Oct. 1930, 396.

Winston, Jean. See Garabedian, Carl A.

Wright, Herman M. See Solomon, Charles.

Zant, Jas. H. See Congdon, Allan Ray; Garabedian, Carl A.; McCormick, Clarence; Solomon, Charles.

